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NATIONAL COMMUNICABLE DISEASE CENTER

THE EDUCATION AND THE EDUCAT

Vol. 16, No. 43

WEEKLY REPORT

Week Ending October 28, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

BUREAU OF A

PUBLIC HEALTH SERVICE

OBSCURE DISEASE RELATED TO AFRICAN MONKEYS

Identification of Agent

Further information regarding the identification of the agent responsible for the obscure disease related to African green monkeys has been released from the Microbiological OResearch Establishment in Porton, England.

HISTOLOGY: Liver

The early passage guinea pig livers contained no obvious degenerative or inflammatory changes. Single cells or groups of 2 or 3 cells could, however, be found scattered about the liver and were found to contain varying amounts of granules. These granules were either clumped together to fill the whole cytoplasm or appeared as dis-

RONMENTAL CONTROL

crete small pleomorphic structures either in the form of larger spheres or smaller almost bipolar granules. They were as a general rule basophilic and stained a dark purple with H & E and reddish-purple with Giemsa. In sections treated according to Ma@hiavello, the granules stained bright red. Feulgen preparations revealed Feulgen-positive material in the cytoplasm in the same situation as the (Continued on page 362)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

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	43rd WEEF	ENDED	MEDIAN	CUMULATIVE, FIRST 43 WEEKS				
DISEASE	OCTOBER 28, 1967	OCTOBER 29, 1966	1962 - 1966	1967	1966	MEDIAN 1962 - 1966		
	1967	1900		1901	1300	1302 - 1300		
Aseptic meningitis	89	53	53	2,487	2,515	1,770		
Brucellosis	4	1	5	208	210	311		
Diphtheria	5	7	9	122	165	216		
Encephalitis, primary:								
Arthropod-borne & unspecified	47	49		1,358	1,832			
Encephalitis, post-infectious	10	7		679	637			
Hepatitis, serum	47	30	1 751	1,809	1,158	21 752		
Hepatitis, infectious	741	721	751	31,779	26,442	31,753		
Malaria	54	17	1	1,687	385	81		
Measles (rubeola)	299	731	1,061	59,362	192,862	363,933		
Meningococcal infections, total	27	40	41	1,855	2,940	2,297		
Civilian	26	40		1,737	2,659			
Military	1	-		118	281			
Poliomyelitis, total	-	5	5	26	82	98		
Paralytic	_	5	5	21	77	78		
Rubella (German measles)	285	254		41,272	43,074	000 041		
Streptococcal sore throat & scarlet fever	7,372	6,541	5,977	367,684	345,833	322,911		
Tetanus	3	1	7	186	161	228		
Tularemia	3	6	7	150	152	241		
Typhoid fever	10	6	6	352	327	371		
Typhus, tick-borne (Rky. Mt. spotted fever).	1	3	2	292	229	215		
Rabies in animals	42	79	61	3,604	3,427	3,427		

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	2	Rubella, Congenital Syndrome:	
Leptospirosis:	33	Trichinosis: N.Y.C1	52
Plague:		Typhus, murine: Ark1, Tex2	38
Psittacosis:	38	Polio, Unsp	_5

Excludes report from Nevada, State holiday.

OBSCURE DISEASE RELATED TO AFRICAN MONKEYS

(Continued from front page)

granules in H & E preparations. The granules were also PAS positive and stained brown with Von Kossa's method. After hydrochloric acid treatment, however, Von Kossa's reaction was negative. but when the same sections were counterstained with H & E, the granules were found undamaged within the cells and staining a dark purple color.

In guinea pigs of the 3rd and 4th passage, small focal necrotic lesions could be found in the liver. In some livers, these necrotic areas were often confluent and formed sharply circumscribed areas. Usually no granules were found in the centre of the completely necrotic liver cells. but comparatively large numbers of granules were found in the cells surrounding the periphery of the necrotic zones. In cells undergoing early degeneration without changes in the nucleus, the cytoplasm appeared to contain small numbers of discrete granules.

No characteristic lesions have been found in any other organ except that reticulo-endothelial cell proliferation was very marked in lymphoid tissue.

HAMSTERS

One-day-old hamsters inoculated either IP or IC with 5th passage guinea pig blood taken in the febrile stage became sick on P.I.D. 9 and 10. Tissues have been removed for histology and also have been further passaged in suckling hamsters.

GUINEA PIGS

Infective guinea pig blood does not infect guinea pigs through intact skin, nor does the disease spread from infected to uninfected guinea pigs in the same cage.

ANTIBIOTIC SENSITIVITY

Seven groups of guinea pigs were used in the experiment. Five groups, (a), (b), (c), (d), and (e), were inoculated with infective guinea pig blood on Day 0.

Group (a) received terramycin (12.5 mg/day) starting Day 0.

Group (b) received chloramphenical (37.5 mg/day) starting Day 0.

Group (c) received terramycin (12.5 mg/day) starting Day 4 (i.e. when guinea pigs were febrile).

Group (d) received chloramphenical (37.5 mg/day) starting Day 4.

Group (e) remained as infectivity controls.

The two remaining groups, (f) and (g), were antibiotic controls, (f) receiving terramycin and (g) receiving chloramphenical daily in the doses shown above.

Neither terramycin nor chloramphenical prolonged the course of the illness although guinea pigs treated with both antibiotics had lowered temperatures. Antibiotic control guinea pigs remained well. After a week's course of antibiotics, these same antibiotic control guinea pigs were infected experimentally and antibiotics continued. They remained afebrile but the course of the illness was not prolonged and they died on P.1.D. 9.

TISSUE CULTURE

Two continuous vervet monkey kidney cell lines (VERO) and BHK_{21} have been inoculated as cover-slip preparations with infected guinea pig material and examined after fixation in formol saline or methanol at various intervals after infection. VERO cells have shown no changes so far but BHK_{21} cells have developed a peculiar vacuolization and small bodies have been seen. More work is under way following this observation.

SEROLOGY

Convalescent sera from febrile guinea pigs and patients have been tested against rickettsial pox, typhus, and Rocky Mountain spotted fever antigens in a complement fixation test. All were negative at dilutions of 1/5.

Convalescent (19 day) sera from febrile guinea pigs were tested in a haemagglutination-inhibition test against Semliki Forest, Sindbis, Chikungunya, Japanese encephalitis, Dengue 1, Dengue 2, Tembusu, Langat, West Nile, Yellow Fever, Louping-ill, Bunyamwera, and Tahyna antigens and all were negative. An antigen prepared from infective guinea pig spleens was tested against these same sera in a complement fixation test. The sera were slightly anticomplementary but appeared to fix complement. This is being confirmed.

lmmune guinea pig serum has been tested against psittacosis antigen in a complement fixation test. The results were negative. Known psittacosis antiserum was also negative when tested against an antigen prepared from spleen of infected guinea pigs.

FILTRATION

The infective agent does not pass through gradocol membranes up to average pore diameters of 340 m μ . Results of filtration using larger pore sizes are not yet available.

(Reported by Dr. C. E. Gordon Smith, Microbiological Research Establishment, Porton, England.)

EPIDEMIOLOGIC NOTES AND REPORTS ENCEPHALITIS SURVEILLANCE — South Texas

Following extensive flooding in the Rio Grande Valley in Texas, sharp increases in mosquito populations were reported from that area. Several species have been detected including *Culex tarsalis*, the principal vector of Western Equine Encephalitis (WEE). Of 60 pools of *C.tarsalis* thus far subjected to viral isolation procedures, one yielded WEE virus. Other encephalitis viruses have not been detected in these mosquitoes.

In addition to local spraying programs, extensive aerial spraying utilizing the ultra low volume Malathion technique has been carried out. Low-flying airplanes have distributed 3 fluid ounces of 95 percent Malathion per acre in particle size of 50-60 micra. A marked decline in mosquito counts subsequently occurred.

Two cases of encephalitis in horses were diagnosed clinically in Cameron County in early October; one of these was fatal. Acute serum from that horse revealed a hemagglutination inhibition titer of 1:160 against WEE virus. No cases of human arbovirus encephalitis have been confirmed, though several suspected cases were individually investigated as part of the intensive surveillance program.

(Reported by Aedes aegypti Program, NCDC; Van C. Tipton, M.D., Director, Division of Communicable Disease Control, Preventive Medical Services, and J.V. Irons, Sc.D., Chief of Laboratories, Texas State Dept. of Health; NCDC Ecological Investigations Laboratories, Ft. Collins, Colorado; 4500th Special Aerial Spray Flight, TAC, U.S. Air Force; and an EIS Officer.)

SHIGELLOSIS - Philadelphia, Pennsylvania

On October 16, 1967, the Epidemiology Division of the Philadelphia Department of Health was notified of an outbreak of gastroenteritis at a small private college. Of the 594 students and 107 staff members, 180 persons became ill between October 14 and 23; 84 percent experienced onset on October 15 and 16 (Figure 1). Symptoms consisted of stomach cramps, severe diarrhea, dizziness, fever up to 104°F., and malaise. Duration of illness was from 2 to 7 days.

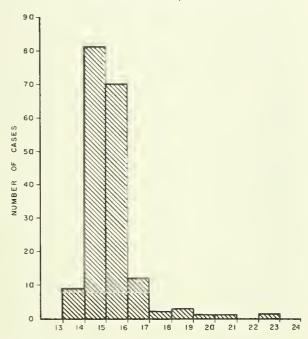
Most of the 436 students who resided at the college ate all their meals in the college cafeteria; it was not possible to incriminate any one meal as a common source. Following an alumni banquet held at the school on October 14, at least 20 of 258 guests subsequently became ill. However, three students who did not eat at the college on October 14 or 15 became ill. A few students and staff members who rarely ate meals at the college also became ill; they indicated that they did drink from water fountains in the school. The only factor in common to all those who became ill is the consumption of water, or food which had been prepared using water, from the school water system.

Investigation of the water system revealed that a waterline had broken in the kitchen on October 8, resulting in the flooding of the kitchen and cafeteria. Cross-connections were found between the sewage and fresh water system which could have resulted in backflow of sewage into the fresh water system as a consequence of the transient negative pressure during the break in the waterline.

From rectal swabs taken from 152 ill persons, 100 bacteriologic cultures yielded *Shigella sonnei*. Rectal swabs were also obtained from 316 students and staff members who were not ill; 13 cultures yielded *S. sonnei*. Water samples taken on October 18 yielded 5 *E. coli* per 100 ml; no shigellae were isolated from the water.

It was concluded that the outbreak probably resulted from the presence of *S. sonnei* in the water system for 1 or 2 days. The inoculum would have to have been of sufficient size to overcome the chlorine in the water. Foods such as fruit drinks and gelatine puddings which were pre-

Figure 1
SHIGELLOSIS OUTBREAK — PHILADELPHIA, PA.
ONSET OF SYMPTOMS OF 189 PATIENTS
OCTOBER 14-21, 1967



pared using this water on October 9 or 10 could have led to further exposure when served later in the week. (Reported by Lewis D. Polk, M.D., Deputy Health Commissioner, Community Health Services; Kristine S. Knisely, M.D., Senior Physician, Division of Health Production; Alfred Bogucki, M.D., Director, Division of Epidemiology; Sylvan Fish, M.D., Chief, Communicable Disease Control; Browne C. Lucas, P.E., M.P.H., Chief, Environmental Engineering Section, Division of Environmental Health, all with the Department of Health, City of Philadelphia, Pa.; and an EIS Officer.)

DIPHTHERIA - Alobama

In addition to the 14 diphtheria cases including two deaths recently reported from Alabama (MMWR, Vol. 16, No. 41), four more confirmed cases, two of which were fatal, were reported to the Alabama State Department of Health. One case occurred in a 1-year-old Negro female from Dallas County, one case in a 7-year-old Negro female from Mobile County, and two fatal cases in a farm family

from Thomaston, Alabama. The latter cases lived in Marengo County which is due west of Dallas County, the site of 11 of the 14 previously reported cases.

The first recent death was in a 6-year-old unimmunized Negro child who expired on October 26, 1967. The child's 42-year-old mother died the following day. Both

(Continued on page 368)

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED OCTOBER 28, 1967 AND OCTOBER 29, 1966 (43rd WEEK)

					F	TITIS					
AREA		PTIC NGITIS	BRUCELLOSIS	DIPHTHERIA	incl	mary uding cases	Post- Infectious	Se	rum	Infed	tious
	1967	1966	1967	1967	1967	1966	1967	1967	1966	1967	1966
UNITED STATES	89	53	4	5	47	49	10	47	30	741	721
NEW ENGLAND	1	5	_	_	2	_	_	_	1	1 ,,	2.2
Maine		-	[_	_	_		_		32	33 5
New Hampshire	-	-	-	-	_	_	-	-	_	_	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	4	-	-	1	-	-	-	-	13	16
Rhode Island Connecticut	1	1	_	-	1 -	-		-	1	1	-
connectitut		1	_	_	_	_	-	_	1	16	12
MIDDLE ATLANTIC	29	5	-	-	4	11	-	20	11	108	137
New York City	3	2	-	-	1	8	-	18	7	41	40
New York, up-State.	1	-	-	-	-	2	-	-	1	14	34
New Jersey Pennsylvania	23 2	1 2	1 [3	1 -		1 1	3 -	27 26	32 31
1 chiloy Ivanita		-		_	J	_		1	_	20	21
EAST NORTH CENTRAL	6	6	-	1	19	5	1	3	-	125	111
Ohio	-	-	-	-	15	2	-	-	-	31	22
IndianaIllinois	-	3 2	-	1 -	2	1 2	-	-	-	18	6
Michigan	5	1	_		1	_	1 -	3] -	18 53	28 46
Wisconsin	1	_	_	_	1	_		-	_	5	9
											1
WEST NORTH CENTRAL	4	7	-	-	3	9	1	2	-	32	46
Minnesota	4 -	7	-	-	2	2	1	2	-	10	4
Iowa Missouri	_		_	_	1	2 1	_	-	-	1 12	3
North Dakota	_	_	_	_	_	_	_	_		- 12	31 3
South Dakota	-	-	-	-	-		_	-	-	-	1
Nebraska	-	-	-	-	-	1	-	-	-	3	-
Kansas	-	-	-	-	-	3	-	-	-	6	4
SOUTH ATLANTIC	16	5	_	_	2	1	1	1	2	89	0.6
Delaware	-		_	_	-	-		-	-	3	96
Maryland	15	-	-	-	-	-	-	1	_	22	26
Dist. of Columbia	-	-	-	-	-	-	-	-	-	1	2
Virginia West Virginia	-	_		-	-	1	-	-	-	20	5
North Carolina	_		_		2	-	-	_	-	13 2	6 11
South Carolina	-	-	-	-	-	-	-	_	_	2	4
Georgia	-	-	-	-	-	-	-	-	_	5	32
Florida	1	5	-	-	-	-	1	-	2	21	10
EAST SOUTH CENTRAL	1	2	1	_		_	1	_	_		20
Kentucky		_	-	_	_		-	_	_	53 23	38 19
Tennessee	1	2	-	-	-	-	1	-	-	13	8
Alabama	-	-	-	-	-	-	-	-	-	9	10
Mississippi	-	-	1	-	-	-	-	-	-	8	1
WEST SOUTH CENTRAL	5	6	1	3	_	10	3	1	4	80	52
Arkansas	1	_	-	-	-	-]	-	1	4	7
Louisiana	2	2	-	3	-	4	2	1	3	12	12
Oklahoma Texas	-	,	-	-	-	1	-	-	-	8	3
1exas	2	4	1	-	-	5	1	-	-	56	30
MOUNTAIN	1	1	1	1	2	2	_	_	_	31	41
Montana	-	-	_	1	-	-	_	-	-	2	3
Idaho	-	-	-	-	-	-	-	-	-	1	7
Wyoming	-	-	-	-	-	-	-	-	-	1	2
New Mexico	1	1_	1 -	-	2	2		-	-	19	4
Arizona	_	-	_	_		_	_		-	3 4	11 10
Utah	-	-	-	-	-	-	-	-	-	1	4
Nevada		-				-			-		-
PACIFIC	26	16	1		1.5	1.1		0.0	1.0	1.00	1
Washington	4	3	1 -		15	11 2	3	20	12	191	167
Oregon	2	-	_	_	1	_	_	1	-	13 11	24 16
California	18	12	1	-	14	9	3	19	12	166	121
Alaska Hawaii	-	-	-	-	-	-		-	-	-	5
	2	11	-	-				-		11	
Puerto Rico	-	-	-	-	-	-	-	-	-	14	24

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 28, 1967 AND OCTOBER 29, 1966 (43rd WEEK) - CONTINUED

	MATARTA	150	100 (D.)		MENINGO	COCCAL INF	ECTIONS,				
AREA	MALARIA	MEAS	LES (Rubeo			TOTAL		Total	POLIOMYELI Paral		RUBELLA
			Cumu 1	,		Cumula				Cum.	
	1967	1967	1967	1966	1967	1967	1966	1967	1967	1967	1967
UNITED STATES	54	299	59,362	192,862	27	1,855	2,940	-	-	21	285
NEW ENGLAND	3	2	882	2,377	-	73	132	_	-	_	31
Maine	-	-	239	235	-	3	11	-	-	-	1
New Hampshire	-	-	77 42	80 292	-	2 1	9 4	-	-	-	-
Vermont Massachusetts	2	2	371	795	_	34	53	_		-	1 5
Rhode Island	1	-	62	72	-	4	16	-	-	-	4
Connecticut	-	-	91	903	-	29	39	-	-	-	20
MIDDLE ATLANTIC	10	16	2,333	18,186	4	301	363	_	-	5	31
New York City	-	2	478	8,325	1	53	53	-	-	1	9
New York, Up-State.	2 6	3 11	601	2,578	2	73 99	102 106	-	-	1	10
New Jersey Pennsylvania	2	-	503 751	1,882 5,401	1	76	100	-	_	3	9 3
			1								
EAST NORTH CENTRAL	1	46	5,732	69,251	7 2	269	470	-	-	3	54
Ohio	-	4	1,163	6,373 5,749	1	89 43	132 81	-	_	_	13
Illinois	-	5	1,028	11,422	-	57	85	-	-	-	3
Michigan	1	14 19	970	14,684	3	62	125	-	-	3	24
Wisconsin	-	19	1,950	31,023	1	18	47	-	-	-	11
WEST NORTH CENTRAL	2	6	2,893	8,828	2	83	154	-	-	3	28
Minnesota	-	-	123	1,648	1	21	35	-	-	-	-
Iowa	_	5	760 338	5,347 536	-	16 16	22 60	-	_	1	22
North Dakota	1	-	874	1,177	1	3	11	-	_	-	_
South Dakota	-	-	55	40	-	6	5	-	-	-	-
Nebraska Kansas	1	1	649 94	80 NN	-	13	8 13	_	-	2	6
italious i i i i i i i i i i i i i i i i i i i	-			1111	_	Ů	13	_			
SOUTH ATLANTIC	18	40	7,065	15,515	5	360	499	-	-	2	21
Delaware Maryland		-	50 168	260 2,120	- 2	7 50	4 48	-	-	1	6
Dist. of Columbia	-	_	24	386	1	13	14	[_	-	_
Virginia	1	2	2,216	2,205	-	42	64	-	-	-	-
West Virginia North Carolina	17	14	1,427	5,381 511	-	34 71	32 130	-	-	1	11
South Carolina	-	-	511	658	-	30	52	_	_	-	_
Georgia	-	-	36	236	2	55	64	-	-	-	-
Florida	-	4	1,719	3,758	-	58	91	-	-	-	4
EAST SOUTH CENTRAL	-	15	5,348	19,904	1	143	255	_	-	1	4
Kentucky	-	-	1,396	4,745	-	42	90	-	-	-	1
Tennessee	-	14 1	1,946 1,335	12,418	1 -	61 26	87 54	-	_	-	3 -
Mississippi	-	-	671	1,030	-	14	24	_	-	1	_
LIECT COUTH CENTRAL	2	70	17 7//			6.5.4				_	
WEST SOUTH CENTRAL	2	73 -	17,744	25,136 972	2 -	234 33	396 36		-	7	1 -
Louisiana	2	-	156	99	-	93	148	-	-	-	_
Oklahoma	-	4	3,358	513	-	17	21	-	-	1	-
Texas	-	69	12,826	23,552	2	91	191	-	-	6	1
MOUNTAIN	5	20	4,757	12,152	-	35	91	-	-	-	15
Montana	-	12	318	1,848	-	3	5	-	-	-	1
Idaho	_	-	393 181	1,642 170	-	3 1	5 6	_	_	-	-
Colorado	4	4	1,594	1,331	-	13	49	-	-	-	7
New Mexico	1	- 2	591	1,141	-	3	10	-	-	-	-
Arizona Utah	-	3 1	1,028	5,325 645	-	5 4	10 1	-	_		4 3
Nevada			269	50		3	5			-	
PACIFIC	13	81	12 600	21 512	6	257	500				100
Washington	8	81 41	12,608 5,555	21,513 4,084	6 4	357 35	580 43	-	-		100 32
Oregon	-	12	1,667	1,887	-	27	36	-	-	-	4
California	5	28	5,068	14,836	2	280	480	-	-	-	48
Alaska	-	-	140 178	560 146	-	11 4	17 4	-	_] [16
Hawaii											

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

OCTOBER 28, 1967 AND OCTOBER 29,1966 (43rd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	OAT & TETANUS		TULAI	REMIA	TYPHOID		TICK-	FEVER BORNE Spotted)	RABIES IN ANIMALS	
4212941	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES	7,372	3	186	3	150	10	352	1	292	42	3,604
NEW ENGLAND	1,008	-	2	-	1	-	7	-	1	-	95
Maine New Hampshire	22 11	-	_	-	_		_	_	-	-	22
Vermont	31	-	_	_	_	_	_	_	_	_	45 22
Massachusetts	101	-	1	-	1	-	3	-	1	-	4
Rhode Island	28	-	-	-	-	-	1	-	-	-	2
Connecticut	815	-	1	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC	190	-	12	1	1	-	34	-	35	-	87
New York City	9	-	6	-	-	-	17	-	-	-	-
New York, Up-State. New Jersey	161 NN	-	1 1	1 -	1 -	-	9	_	9	-	73
Pennsylvania	20	-	4	-	-	-	4	-	15 11	-	14
EAST NORTH CENTRAL	478	_	20	_	12	_	39	_	22	3	341
Ohio	29	-	4	-	-	-	13	-	11	-	117
Indiana	88	-	3	-	2	-	11	-	1	1	78
Illinois	76	-	10	-	10	-	. 5	-	10	-	64
Michigan	197 88	-	3	_	-	-	8 2	_	-	1 1	22 60
TIEGT MODEL CENTRAL	217	,	1.6		0.1						
WEST NORTH CENTRAL Minnesota	317 4	1 1	16 5	-	21	2 1	19 2	_	4 1	14	848
Iowa	122	-	1	_	1	-	3	_	_	6 7	168 113
Missouri	17	-	8	-	8	1	9	-	1	_	151
North Dakota	74	-	-	-	-	-	-	-	-	-	143
South Dakota Nebraska	12 72	-	1	-	2	-	-	-	-	-	116
Kansas	16	-	1	-	10	-	4 1	_	2	1	58 99
SOUTH ATLANTIC	798	1	40		10						
Delaware	1	-	40	-	10	2	52	_	116	4	444
Maryland	162	_	_	_	_	_	2	_	21	-	3
Dist. of Columbia	2	-	-	-	-	-	2	-	-	-	6
Virginia	221	-	9	-	-	-	6	-	28	-	190
West Virginia North Carolina	255 7	- 1	1 7	-	2	1	2 4	-	1	1	60
South Carolina	6	-	1	_	2		10	_	46 5		3 2
Georgia	24	-	4	-	5	-	14	-	15	3	110
Florida	120	-	18	-	1	1	12	-	-	-	70
EAST SOUTH CENTRAL	1,134	-	30	-	10	4	62	-	52	8	682
Kentucky Tennessee	78 871	_	3 8	_	1	3	27	-	14	3	158
Alabama	95	_	11	_	7	1 -	11 12] [26 12	4 1	471 44
Mississippi	90	-	8	-	2	-	12	-	-	-	9
WEST SOUTH CENTRAL	788	-	46	2	79	1	37	1	42	10	786
Arkansas	-	-	5	1	46	1	12	1	15	2	105
Louisiana Oklahoma	- 29	-	4	-	8	- 1	14	-	1	-	65
Texas	7 5 9	_	3 34	1	18 7	-	7 4	-	16 10	2 6	286 330
MOUNTAIN	1,764		2			,					
Montana	60	-	-		10 1	1	20 2	_	9	-	110
Idaho	164	-	-	_	-	-	-	_	_	-	-
Wyoming	179	-	-	-	2	1	1	-	_	-	5
Colorado New Mexico	1,088	-	1	-	1	-	12	-	9	-	10
Arizona	121 103	-	1 -	-	-	-	2	-	-	-	34
Utah	49	-	_	-	6	-	-	_		-	49
Nevada			-		-		-		-		9
PACIFIC	895	1	18	-	6	-	82	-	11	3	211
Washington Oregon	382	-	- 1	-	2	-	2	-	2	-	2
California	87 32 3	-	1 13	-	1 3		. 3 74	-	3	-	205
Alaska	50	-	-	-	-	-	-	-	6	3	205
Hawaii	53	1	4	-		-	3	_			
Puerto Rico	7	_	16	-	-	-	6		_	-	30

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 28, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

(By place of occurrence and week			1 1	ing certificate. Excludes					
	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	Under
Area	A11	65 years	and	l year	Area	A11	65 years	and	l year
	Ages	and over	Influenza	A11		Ages	and over	Influenza	All
			All Ages	Causes				All Ages	Causes
NEW ENCLAND:	826	506	37	44	SOUTH ATLANTIC:	1,101	551	45	83
Boston, Mass	359	196	16	24	- Atlanta, Ca	138	60	4	12
Bridgeport, Conn	38	26	7	-	Baltimore, Md	221	97	5	18
Cambridge, Mass	23	13	-	- 1	Charlotte, N. C	29	13	2	-
Fall River, Mass	17	15	-	1	Jacksonville, Fla	60	33	1	3
Hartford, Conn	55	34	1	5	Miami, Fla	103	61	1	8
Lowell, Mass Lynn, Mass	20 24	16 14	1	-	Norfolk, Va Richmond, Va	45 89	22 44	3 1	2 10
New Bedford, Mass	32	22	1	_	Savannah, Ga	26	5	1	6
New Haven, Conn	41	18		6	St. Petersburg, Fla	78	63	5	-
Providence, R. I	50	34	1	2	Tampa, Fla	72	36	8	3
Somerville, Mass	12	6	2	-	Washington, D. C	196	91	11	19
Springfield, Mass	51	34	2	1	Wilmington, Del	44	26	3	2
Waterbury, Conn	28 76	22 56	5	1 4	EAST SOUTH CENTRAL:	628	331	27	30
Worcester, Mass	70	20	,	4	Birmingham, Ala	90	44	3	2
MIDDLE ATLANTIC:	3,173	1,854	109	112	Chattanooga, Tenn	45	22	2	4
Albany, N. Y	44	25	1	3	Knoxville, Tenn	49	29	_	-
Allentown, Pa	35	14	2	2	Louisville, Ky	121	73	10	9
Buffalo, N. Y	137	90	-	7	Memphis, Tenn	143	75	5	10
Camden, N. J	36 34	14	3	3	Mobile, Ala	53	26	1	1
Elizabeth, N. J Erie, Pa	40	22 23	1 4	1 -	Montgomery, Ala Nashville, Tenn	39 88	20 42	2 4	1 3
Jersey City, N. J	66	41	3	5	nashvitte, leili.	00	42	4	,
Newark, N. J	80	38	4	3	WEST SOUTH CENTRAL:	1,047	556	44	64
New York City, N. Y	1,635	953	52	46	Austin, Tex	32	18	5	2
Paterson, N. J	30	13	2	-	Baton Rouge, La	43	23	-	9
Philadelphia, Pa	496	295	11	22	Corpus Christi, Tex	30	20	1 :	1
Pittsburgh, Pa	177 49	90 32	3 5	9	Dallas, Tex.	145	89	7	6
Reading, Pa Rochester, N. Y	96	63	3	4	El Paso, Tex Fort Worth, Tex	42 7 7	22 43	6 3	6
Schenectady, N. Y	21	15	-	1	Houston, Tex	189	84	8	6
Scranton, Pa	50	31	2	1	Little Rock, Ark	51	36	_	4
Syracuse, N. Y	44	33	1	-	New Orleans, La	145	67	5	7
Trenton, N. J	44	29	9	-	Oklahoma City, Okla	64	30	1	3
Utica, N. Y	24	18	-	1	San Antonio, Tex	124	68	4	6
Yonkers, N. Y	35	15	3	2	Shreveport, La Tulsa, Okla	48	25	3 2	2 6
EAST NORTH CENTRAL:	2,596	1,444	75	129	Idisa, Okia.	57]	_	"
Akron, Ohio	78	50	-	2	MOUNTAIN:	406	240	19	25
Canton, Ohio	37	23	8	1	Albuquerque, N. Mex	45	18	9	2
Chicago, Ill	733	384	26	41	Colorado Springs, Colo.	20	13	3	-
Cincinnati, Ohio	179	101	2	8	Denver, Colo	118	69	2	8
Cleveland, Ohio Columbus, Ohio	187 120	96. 68	6 2	8 4	Ogden, Utah Phoenix, Ariz	16 87	13	2 2	6
Dayton, Ohio	69	39	_	-	Pueblo, Colo	21	55 13		2
Detroit, Mich	362	191	3	18	Salt Lake City, Utah	47	28	1	4
Evansville, Ind	35	23	2	3	Tucson, Ariz	52	31	-	3
Flint, Mich	52	27	-	7					
Fort Wayne, Ind	42	32	-	1	PACIFIC:	1,567	976	30	70
Gary, Ind	31	14	3	1	Berkeley, Calif	21	17	-	1 1
Grand Rapids, Mich Indianapolis, Ind	36 163	27 92	4 2	- 4	Fresno, Calif Glendale, Calif	50 31	31 22	1	5
Madison, Wis	52	21	-	7	Honolulu, Hawaii	34	19	2	2
Milwaukee, Wis	126	86	4	6	Long Beach, Calif	80	47	1	1
Peoria, Ill	34	21	-	3	Los Angeles, Calif	500	331	9	16
Rockford, Ill	33	23	3	4	Oakland, Calif	105	51	1	12
South Bend, Ind	46	28	5	1	Pasadena, Calif	28	21	-	1
Toledo, Ohio	118	67	3	5	Portland, Oreg	108	64	1	5
Youngstown, Ohio	63	31	2	5	Sacramento, Calif San Diego, Calif	68 95	35 56	2 1	2 8
WEST NORTH CENTRAL:	838	502	28	37	San Francisco, Calif	183	123	3	5
Des Moines, Iowa	75	40	1	5	San Jose, Calif	36	21	1	1
Duluth, Minn	25	15	-	-	Seattle, Wash	142	84	7	5
Kansas City, Kans	38	20	3	5	Spokane, Wash	43	30	1	2
Kansas City, Mo	138	94	2	3	Tacoma, Wash	43	24	-	4
Lincoln, Nebr	27 107	15 67	7	2	Total	12 102	6,960	414	597
Minneapolis, Minn Omaha, Nebr	81	57	4	6 5	10[41	12,182	0,500	414	594
St. Louis, Mo	221	117	2	8	Cu	mulative To	tals		
St. Paul, Minn	70	45	3	2	including report			revious we	eks
Wichita, Kans	56	32	6	1					20
		•	•		All Causes, All Ages	01105		527,7 300 9	
					All Causes, Age 65 and Pneumonia and Influenza	All Ages		300,9 18,4	
					All Causes, Under 1 Yea				
					The control of the co				



DIPHTHERIA - Alabama (Cantinued fram page 363)

cases were clinically diagnosed as diphtheria and confirmed by bacteriologic examination. Among the nine siblings of the dead child, five have positive cultures for Carynebacterium diphtheriae from nasopharynx specimens. and two of the five also have positive cultures from cutaneous lesions. The father's cultures are negative to

Neighborhood and school culture surveys and a vicinity immunization program are underway.

(Reported by W.H.Y. Smith, M.D., Directar, Bureau af Preventable Diseases; William J. Donald, M.D., Directar, Bureau af Caunty Health Services; Thomas Hosty, Ph.D., Directar, Bureau of Labarataries, all with the Alabama State Department of Public Health; and an EIS Officer.)

INTERNATIONAL NOTES IMMUNIZATION INFORMATION FOR INTERNATIONAL TRAVEL PHS 384

The 1967-68 edition of the booklet "Immunization Information for International Travel" is available at the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402 at 40¢ a copy. There is a discount of 25 percent when 100 copies or more are ordered and delivered to the same address.

The principal changes include the recommendations of the Surgeon General's Committee on immunization practices, and changes in the immunization requirements of other countries.

Information in the booklet is kept current in the Morbidity and Mortality Weekly Report, published by the National Communicable Disease Center, Atlanta, Georgia 30333.

ERRATUM: Val. 16, Na. 42, p. 358

The correct number of reported cases of streptococcal sore throat and scarlet fever from Mississippi for week ending October 21 was 167 cases. Typographical error on Weekly Telegraphic Report showed 667 cases.

THE MORBIOITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE OISEASE CENTER, ATLANTA, GEORGIA.

OISEASE CENTER, ALL COMMUNICABLE OISEASE CENTER
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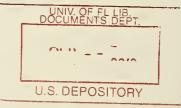
IN ACOITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIOITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE OIRECTLY RELATED TO THE CONTROL OF

NATIONAL COMMUNICABLE OISEASE CENTER ATLANTA, GEORGIA 30333 THE EOITOR MORBIOITY AND MORTALITY WEEKLY REPORT

NOTE: THE OATA IN THIS REPORT ARE PROVISIONAL AND ARE BASEO ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIOUAL STATE HEALTH OFFARTMENTS. THE REPORTING WEEK CONCLUDES ON SATUROAY; COMPILEO OATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEOING FRIOAY.

BUREAU PUBLIC HEALTH SERVICE

OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL HEALTH, EDUCATION, COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA OFFICIAL BUSINESS AND WELFARE



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